cd 5th June

(C) 7th Ang

विश्व प्रमावर्गः दिवस कव मनामा जाता है -(\$) 28 452AZI (र्ग) थ्स अप्रेल हो। न अर्थेव (ध) पाँच जून 4. which of the following can cut DNA into small fragments? (b) Maltage a Restriction engymes (d) DNA Palymerase: @ Engyme ligase को स्वडा में काटता है: इनमें में क्लीन का भारटेज का श्रीतबंधन छजाइम FUI DNA YTON 872 CM (मा) क्यारच लारग्ल 5. Miller Synthesized amino-acide from a minoture, of -(a) ammonia, methene and oxygen (b) Hydrogen, ammonia, methane and water vapour (C) Hydrogen cyanide, hydrogen and Oxygen (d) Hydrogen, nitrogen and water vapour निमलर में समाना आम्य का संख्यापन विकास निमला स g anzul (क) अम्मानमा, मयन वटा आवशालन (१) हाइड्रांजन , अम्मीनियां , में यन तयां जल वाप्प (अ) शहर्षान यायनाहर , शहर्षान त्या आवसीयन

(01) शाउड़ीजन, माइट्रीयन तथा दाल वाज्य

6. Montreal Protocol is related to control
the deleterious effects of ___ |

(a) Acid rain (b) Global warming
(c) Ozone depletion (d) deforestation

(d) deforestation

(a) STEAL STOCIATION OF AMERICA STOTE IN POSITION

(a) STEAL OF OTHER (d)

7. Primary consumers for their food depend /
en —

(a) Secondary consumers (b) herbivores

(c) Producers (d) Carrivore

41211713 3411471 3447 4147 4147 4 1047 4 1047

(a) Pading 3411471 (b) 2114721 4177

(b) 2114721 4177

(c) 344143 441471 (d) 4144124 (d)

8. South at all and south of the following is parthers carpic fruit —

(a) Mango (b) Barara es Coconeta (d) Mone of these. 9. CHENTERS III CHEN STONE AND LONGING ON A COLLET STORE ON A STORE ON PROGRAM ON BY STER AND STORE ON DHA ON DIE AND STORE ON TO CHEN GUN ON B is used for - Chene gun on b is used for - Che

10. Which of the following is the high. I wilk-yelding variety of cow—
as Donset. (b) Holstein (cs Pashmina of) Nellore.

द्वनमें में कौन - सी के ने आधा की प्रज्यान देन युक्ट - 3 व्यादिन करता है -(3) डायमेट व्यादन करता है -(3) प्रामीना की नेक्ली

				, (
		Group-B		e u m e grand
11. cho.	se the right			[2×3]
n. Path	of energy	flow in s	an Zeeveys	tem -
	lucers ->			
de	composers			
(b) her	sivores —	producers.	_ carniva	ore —
de	composers			
(c) her	bivores _	Carnivore	- Produ	cer -
ale	composers			
(d) pro	ducers -	Carnivores	_ hersiv	rares -
	e amilaiers.			
Jan En	MILILAIMA	5 dy of 3,0	या कर्ण प्रवाह	EIME -
(B) 3	Mices -	211काहारी जीव	- ATTAIR	गरा जीव -
	SIU CUCCOOC ->1			
b 27	1451 21 - SIVERCES	3041495 -	- MILIER	
<	siyerc 5	. 0		
	11 30 8121	*		
12. 'arz	। पाइन्स्ना	3111	गर योहाप	िटप्रा रेजीरबट
No.	ile short	notes on	Biopiracy.	2
	1		212	
13.		Morgan /	Mendel)	ous covered
hin	kage on	his study	on	(Drosop
L D.	kage on mosopile/m	iosquisto).		

(Steriling पर शीधा-काम के समम सहसाजता की स्वीम की

Group-C

Match the following: - 3 , (1) Liger and deer (a) Mutualism

(b) Commensalism (ii) Lichen

Cs Predation (Tii) clownfish and sea anemone

(क) यही निस्तानं कर

(a) MEIMBILZAI (1) वाद्य त्या श्रीरी

कि शहमीनिता (ii) MED-1

्रा। कलाउन महना तथा समुदा C) JEHNOI धिनमील

16. Cta-yocianoi et estatui secuosi and solitario de la short notes on biofortification.

(a) SHEIZ GICH

OR

(b) SHYOI HATTAMI

(while short on notes:—

(a) Food web

Or

(b) Incomplete Dominance.

(a) cied dey
(b) Ganal
(c) cied dey
(ii) services
(c) care (iii) services
(d) cared
(e) Acop
(v) Rangelong

Match the following: -

7/8

as Sunken stomata

as aboutic feelor

(b) hight

(b) Producer

CI Grass

(C) Primary Carnivore

els Hank

di Xerophytes

es frog

es Secondary carnivore

02

Suggest measures to control air pollution.

(diy - 44401 of Paixing one of Paixing 2)

18. Grain Gran Gold of Parsiers that what are the devices of flowers that encourage cross-pollination.)

Mescribe the biatie components of an ecosystem.)

(ass) 2001014/SET => Ist.

79

SECTION – B (ZOOLOGY) FULL MARKS- 35

GROUP - A UIXIU=IU
(MULTIPLE CHOICE/ OBJECTIVE TYPE QUESTION OF 01 MARKS EACH)
Which bacteria is responsible to produce Bt toxin
(a) bacillus tumines (b) basillus thuringiensi (c) bacillus tuberculosis (d) lacto bacillus
2. In genetic engineering, the antibiotics are used:
(a) To select healthy vectors (b) As sequences from where replication starts
(c) To keep the cultures free of infection (d) As selectable markers
3. Doctors use stethoscope to hear the sounds produced during each cardiac cycle. The second sound is heard when:
(a) Ventricular walls vibrate due to gushing in of blood from atria
(b) Semilunar valves close down after the blood flows into vesels from ventricles
(c) AV node receives signal from SA node
(d) AV valves open up
4. Which one of the following is a wrong statement regarding mutations?
(a) Cancer cells commonly show chromosomal aberrations
(b) UV and Gamma rays are mutagens
(c) Change in a single base pair of DNA does not cause mutation
(d) Deletion and insertion of base pairs cause frame-shift mutations
5. Which one of the following characteristics is common both in humans and adult frogs?
(a) Internal fertilization (b) Nucleated RBCs (c) Ureotelic mode of excretion (d) Four-chambered heart
6. Which of the following disease is diagnosed by WIDAL Test
a) Malaria b) Typhoid c) Filariasis d) Ascariasis
7. Which is not the way to introduce alien DNA into host cells
(a) thermal shock (b) micro injection (c) gene gun (d) RNA
8. PCR stands for
(a) pure chemical reaction (b) part create reaction (c) polymerase chain reaction (d) partial cytoplasm ra

9. Which of following scientist developed the process of	DNA fingerprinting	
	(c) T.H. Morgan	(d) H.O. Smith
(a) har y britishing		1
10. Identify the correct order of organisation of genetic r		la atido
(a) delibilité, em	(b) Genome, chromosome, gene, nuc	
(c) Chromosome, genome, nucleotide, gene	(d) Chromosome, gene, genome, nuc	cleotide
GROUP-B	02x03=06	
(VERY SHORT ANSWER TYPE QUESTION CARRYING 2 MAR	KS EACH)	
 What is point mutation? Give one example. Describe one example of adaptive radiation. What is DNA fingerprinting? 	2	
GROUP - C	03x03=09	
(SHORT ANSWER TYPE QUESTION CARRYING 3 MARKS		equative mode of DNA
Which property of DNA double helix led Watson replication? Explain.	and Crick to hypothesise seriii —cons	ervative mode of Divi
2. Explain antibiotic resistance observed in bacteri	ia in light of Darwinian selection theo	ry. 3
3. Amniocentesis for sex determination is banned	in our country. is this ban necessary	? comment
GROUP – D	05x02=10	
(LONG ANSWER TYPE QUESTION CARRYING 5 MARK	KS EACH)	
 Diagrammatically represent the experiment gene for growth hormone) into a bacterium 	m like E. coli?	
How did Hershey and chase differential proving that DNA is the genetic matter.		eir experiment while